



CROWN TECH LUBES



INTRODUCTION

The Royal MFG line of NSF H-1 & 3-H registered, Food Machinery Lubricants are designed to provide total food processing and bottling plant lubrication capability. These lubricants are formulated from high quality base stocks combined with unique, premium, anti-wear additives. These food grade lubricants exceed many performance specifications of conventional mineral oil NSF H-2 lubricants.

All Royal MFG H-1 & 3-H lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental food contact. They meet USDA H-1 safety standards and are authorized for use in federally inspected meat and poultry plants.

FEATURES & BENEFITS

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- Extend your re-lubrication intervals
- Eliminate downtime providing significant cost-savings
- Multiple application capability for all food grade lubricants
- Inventory consolidation while improving machinery performance
- NSF H1 registered
- NSF 3H registered
- HALAL approved
- Improve machinery life by reducing wear
- Reduced power consumption providing savings.

PRODUCTS

- Crown Tech - High Performance Pure and Clean NSF H1 White Oils
- Crown Tech Plus - Superior Oil for Hydraulic Systems Requiring NSF H1 Oil
- Crown Tech PLUS G - Superior Oil for Gears & Gear Boxes Requiring NSF H1 Oil
- Crown Tech FG 3-H - High Performance Odorless, Tasteless, Colorless NSF 3-H Oils
- Crown Tech AZ Grease H1 - ALC, Multi-Purpose Food Grade Grease
- Crown Tech Ultra Grease H1 - CSC, Heavy Duty Food Grade Grease
- Crown Tech Edge Grease H-1 HD - Hi-Temperature and Heavy Duty Food Grade Grease

CROWN TECH PLUS G

DESCRIPTION:

Crown Tech Plus G oils are specially formulated to provide superior lubrication and high load carrying capacity. These water white oils provide outstanding anti-wear protection, are compounded to prevent rusting in the presence of moisture, are non-foaming, and have rapid water separation characteristics.

The high load carrying capacity and anti-wear compounding of Crown Tech Plus G oils make them excellent candidates for food machinery gear cases. The USDA/NSF has approved Crown Tech Plus G oils under their H-1 specification for incidental contact with food. All oils comply with FDA guidelines for food contact listed in CFR Title 21 Part 178, Section 178.3570. The products should be used "as is," without mixing with any other materials prior to use.

APPLICATIONS:

Crown Tech Plus G oils provide outstanding lubrication in all enclosed gears (worm, helical, bevel, and spur) operating under normal or heavy shock-loading conditions. Crown Tech Plus G oils may be used in oil mist lubricating systems where specific mist control additives are not required, due to their inherently low volatility. Crown Tech Plus G oils can also be used in bearings and chain drives, providing long service life and clean operation.

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- NSF H1 registered
- NSF 3H registered
- HALAL approved
- Improve machinery life by reducing wear
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SALES POINTS

- Excellent extreme pressure properties
- Protects against damage from shock loading, long-term wear
- Protects against build-up of sludge, varnish, rust and corrosion
- NSF H-1 Registered
- Available in ISO VG 100, 150, 220, 320, 460 viscosities

CROWN TECH PLUS

DESCRIPTION:

Crown Tech Plus oils are specially formulated to provide superior lubrication in food plant machinery. These water white oils provide outstanding anti-wear protection, are compounded to prevent rusting in the presence of moisture, are non-foaming, and have rapid water separation characteristics. An effective antioxidant gives long oil service life and reduces the possibility of sludge and varnish formation. These oils provide anti-wear protection that meets all the requirements of major hydraulic pump manufacturers such as Cincinnati Milicron P-68, P-69, P-70, and Vicker's 104 vane pump wear test.

APPLICATIONS:

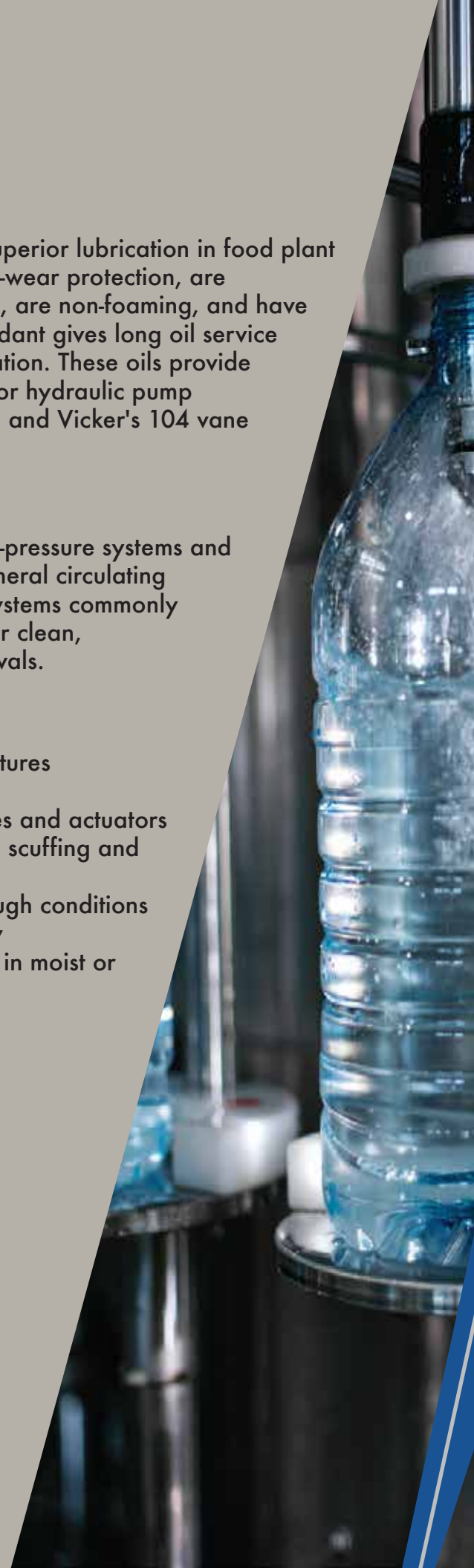
Crown Tech Plus oils provide excellent performance in high-pressure systems and may also be used to lubricate anti-friction bearings and general circulating systems. It can also be used for inline oilers in pneumatic systems commonly found in food packaging applications. These oils will deliver clean, non-varnishing performance even in extended service intervals.

FEATURES & BENEFITS

- Resistance to oxidative breakdown even at high temperatures
- Keeps systems free of sludge and varnish
- Ensures smooth and reliable operation of hydraulic valves and actuators
- Anti-wear protection and protects metal pump parts from scuffing and scoring
- Protects equipment operating for extended periods in tough conditions
- Extends equipment life and improves operating reliability
- Prevents pump, actuator, and circulating system damage in moist or wet operations
- Resistance to contamination
- Highly resistant to foaming and air entrapment
- Prevents reservoir over flow

SALES POINTS

- NSF H-1 Registered
- Rapid Water Separation
- Excellent Rust Protection
- Superior Anti-Wear
- Longer Fluid Life & Reduced Downtime
- Available in ISO VG 10, 15, 22, 32, 46, 68, 100





CROWN TECH WHITE OILS

DESCRIPTION:

Crown Tech White Oils are made from select base stocks and exhibit excellent low pour characteristics. The odorless, colorless, and tasteless oils conform to all specifications of the Food and Drug Administration's food additive regulations 21 CFR 178.3620(b) and 21 CFR 573.68.

Crown Tech White Oils are best suited for applications requiring technical grade white oils. They are USDA/NSF 3-H & H-1 approved for use in food processing plants and FDA approved as direct food additives. Crown Tech White Oils are well suited for the animal feed processing industry.

APPLICATIONS:

Crown Tech White Oils can be used as coatings for bakery pans and dough dividers, cutters, knives, meat packers, boards, trays, and hooks; and as a lubricant and rust preventative for food processing machinery. In the food processing area, they can be used as a release agent on grills, pans, and other food processing equipment. They can be used in cosmetics & pharmaceuticals, suntan lotions, baby oils, bath oils, as a base for ointments, as a pelletizing aid, and as a drug-processing agent.

Crown Tech White Oils can be widely used by food processors, dairies, breweries, bottlers, meat plants, bakeries, canneries, cafeterias, restaurants, hospitals, supermarkets, and in all applications where a food-safe, nontoxic USP lubricant is required.

Crown Tech White Oils effectively penetrate into hard-to-reach, "danger" areas such as pulleys, conveyors, rollers, etc., and help protect valuable machinery against destructive rust and corrosion.

FEATURES & BENEFITS

- Extremely low pour point
- Conforms to FDA regulation
- Prevents rust and corrosion
- Thermal stability over a wide operating temperature range

SALES POINTS

- NSF H-1 Registered
- HALAL Registered
- Minimizes Downtime
- Water White Appearance
- Clean & Pure
- Available in ISO VG 10, 15, 22, 32, 46, 68 and 100 viscosities

www.CrownTechLubes.com

CROWN TECH AZ & EDGE GREASE

DESCRIPTION:

Crown Tech AZ is a multi-purpose and hi-temp food grade grease designed specifically for a wide range of applications within the food industry. This grease is formulated with aluminum complex thickener and other permissible ingredients including base oils and performance additives to meet the stringent requirements of the food industry.

Crown Tech AZ is a NSF registered H1 food grade grease designed specifically for the increasing demands of the beverage, food packaging, and processing industries; providing high quality and reliable performance.

Royal Crown Tech Edge Grease is formulated with aluminum complex thickener and other permitted ingredients including high viscosity base oils and additives to meet the stringent requirements of the industry. This grease has higher load carrying capabilities coupled with rust preventive and water resistant properties.

APPLICATIONS:

5. Crown Tech AZ & Edge Grease are recommended for the food, beverage, and pharmaceutical industries where incidental contact is a concern. They are ideal for sleeve and anti-friction bearings, slides, guides, and couplings. Crown Tech AZ & Edge Grease can be used in lumber and pulp/paper machinery where staining or contamination is a concern and is also recommended for textile machinery bearings.

FEATURES & BENEFITS

- Resists melting
- Protects gears, bearings and equipment from wear and corrosion
- Lubrication and pump-ability over a wide range of temperatures
- Excellent equipment protection under shock loading conditions

SALES POINTS

- NSF H-1 Registered
- Aluminum Complex Thickener
- Good extreme pressure & rust properties
- Excellent water resistance
- Great high temperature properties
- Available in NLGI 00, 0, 1 and 2 grades

CROWN TECH ULTRA H1 GREASE

DESCRIPTION:

Crown Tech Ultra H1 Grease is a new generation H1 food grade grease designed specifically for lubrication of the most stringent applications in the food industry. This grease is formulated with food grade calcium sulfonate complex thickener along with other permissible ingredients including anti-oxidants and anti-wear additives to meet the most demanding requirements of the food industry. This innovative food grade grease will outperform all other food grade grease formulations by utilizing calcium, clay, and even aluminum complex based greases.

Crown Tech Ultra H1 Grease has exceptional mechanical stability even in the presence of water and contains no heavy metals or other environmentally undesirable additives. It also excels in applications where resistance to water washout and broad operating temperatures are absolutely necessary. The formulation of this product provides unsurpassed resistance to extreme pressures and corrosion, including salt spray. Super Foodplex has an operating range of 40°F to +400°F (-40°C to +204°C) once in the application with intermittent performance exceeding 550°F.

APPLICATIONS:

Crown Tech Ultra H1 Grease is a heavy-duty food grade grease specifically formulated for heavy load industrial bearings that operate under harsh conditions and various speed types. Super Foodplex exhibits excellent protection in applications subjected to high temperature, high pressure, and heavy loads while operating continuously, such as animal feed mills.

FEATURES & BENEFITS

- Excellent resistance to water – most suitable for water prone applications
- Excellent mechanical and shear stability – stable under operating conditions
- Outstanding high temperature characteristics
- Suitable for the most severe heavy and shock load conditions
- Great stay-put properties at high temperatures
- Outstanding load carrying ability

SALES POINTS

- Provides greater film strength for sustaining heavy loads
- Long-term equipment protection from rust and corrosion
- Prevents bearing, gear and equipment damage in moist or wet operations
- Easy to identify excess grease oozing out of failing seals
- Does not stain clothing, wood, or porous materials
- One grease can be used for a wide variety of applications



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